Absorb IgG Reagent

Reagent for Absorption of IgG Antibodies from human serum

Art.No.: PR715
Content: 5 ml
Store at: 2 - 8°C

Instruction sheet / Gebrauchsanweisung / Carnet d'_instruction / instrucciones de uso / gebruiksaanwijzing / istruzioni per l'uso / σελίδα οδηγιών / bruksanvisning / modo de emprego: www.progen.de

1. Introduction
The detection of IgM-antibodies in patient samples is a serological standard method for the early diagnosis of infectious diseases [1]. The detection of IgM antibodies can be influenced by the presence of specific IgG antibodies. Therefore these antibodies have to be eliminated before the detection of IgM [2].
In general there are two possibilities how IgG antibodies can disturb the detection of IgM antibodies.

Competition for binding sites
IgG antibodies compete more efficient for accessible binding sites on the antigen than IgM antibodies. In certain cases, like for example samples with low IgM titer IgG antibodies can block completely the binding of IgM antibodies, which will result in a false-negative IgM result.

Rheumatic factor (RF)
If a sample is negative for IgM antibodies but contains IgG antibodies as well as RF this can lead to the following problem: RF is often an anti-IgG antibody from the IgM class, who can bind to the IgG antibodies in the patient sample. This leads to an immune complex. This immune complex has then binding sites for the \( \mu \)-chain specific conjugate and results in a false positive IgM test result [3].

2. Application

3. Principle
The Absorb IgG Reagent is a reagent that contains anti-human-IgG antibodies. The Absorb IgG Reagent precipitates human IgG antibodies through an immunoprecipitation reaction. Therefore both possibilities of disturbance of the assay are eliminated.

Patient samples that have been treated with Absorb IgG Reagent allow a reliable detection of IgM antibodies.

4. Material required but not provided
Precision pipets (10 µl, 50 µl)
Sample mixer
Mikrofuge (9 000 \( \times \) g)
Mikrotubes for dilution of sera
Pipette tips
Gloves
Timer

5. Content
ABS, Absorb IgG Reagent, Goat anti human IgG Antibodies with stabilizing protein and 0.09 % sodium azide as conserving agent, 1 dropperbottle, 5 ml. Ready to use!

6. Sample Material and Storage
Absorb IgG Reagent is used for IgG absorption of human sera. Samples can be stored at 2-8°C up to 6 weeks. Samples can be stored undiluted for several months at a temperature of at least -20°C. Avoid repeated freezing/thawing [4].

7. Stability
The Absorb IgG Reagent is stable until the expiry date indicated.
After opening it can be used for another 6 month but only until the expiration date indicated on the label if stored at 2-8°C.
8. Procedure
In a microtube mix 1 volume part serum and 5 volume parts ABS, e.g., add 10 µl Serum to 50 µl ABS.
Incubate at room temperature (20-26°C) for 15 Min.
Spin down in microfuge for 10 Min. at 9 000 × g.
The precipitated IgG antibodies are in the pellet.
The clear supernatant is now diluted 1:6 (or 1+5). It will be used for the detection of IgM antibodies in the Hantavirus IF Tests (see introduction).
To perform the initial screening dilution (1:16) of sample for the Hantavirus IF Tests to determine IgM, samples have to be further diluted as follows: add 60 µl of absorbed supernatant to 90 µl PBS.

9. Notes for the User
For professional use!

Security notes:
The reagent contains sodiumazide. Do not swallow!
Avoid any contact with skin or mucous membranes!
Safety data sheet is available on request!

Disposal considerations
Product: Chemicals must be disposed of in compliance with the respective national regulations. Disposal of biological components should be in accordance with existing disposal practices employed for patient serum samples or infectious waste.
Packaging: Packaging must be disposed of in compliance with the country-specific regulations. Handle contaminated packaging in the same way as the product itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.
Measures after damage on transport
If a kit is considerably damaged, please contact the manufacturer or local distributor. Store such components or kits until the complaint is handled.

10. Limitation
The Absorb IgG Reagent will precipitate up to an IgG antibody content of 15 mg/ml. Sera with an IgG content of >15 mg/ml have to be treated with a proportional higher amount of Absorb IgG Reagent.

11. References